SARACENS
SIXTH FORM

Course Information
A Levels and T Levels

Art, Craft and Design

Exam Board: AQA	**Course Code:** 7201
Course Summary	**Skills**
This course promotes learning across a variety of experiences and through various processes, tools, techniques, materials and resources to generate different kinds of evidence of working and outcomes. Pupils will explore and create work associated with the following areas: Fine Art, Graphic Communication, Photography and Art Textiles. Throughout the course pupils will be undertaking sustained projects linked to a theme that will conclude in a final outcome.	• Creativity • Problem solving • Critical analysis • Understanding the work of others • Influences in society • Mediums and techniques
Future Careers	**Assessment**
• Graphic designer • Artist • Pattern designer • Fashion designer • Book designer • Illustrator • Artworker • Make-up designer • Set designer • Produce designer • Architect • Web designer • Advertising • Animation • Games designer	**Component 1: 60%** Personal investigation. This is a practical investigation supported by written material. Students are required to conduct a practical investigation into an idea, issue, concept or theme, supported by written material. The focus of the investigation must be identified independently by the student and must lead to a finished outcome or a series of related finished outcomes. **Component 2: 40%** Response to an externally set assignment. This will consist of a choice of eight questions to be used as starting points. Students are required to select **one**. Students will be provided with exam papers on 1 February, or as soon as possible after that date.
Entry Requirements	**This course is suitable for students who…**
GCSE Art - Grade 5 GCSE English Literature Grade 5 GCSE English Language Grade 5	• …are looking to develop an advanced understanding of Art • …want to pursue a career in a creative subject • …want to develop their creativity

Biology

Exam Board: AQA	**Course Code:** 601/4625/4
Course Summary	**Skills**
These qualifications are linear. Linear means that students will sit all the AS exams at the end of their AS course and all the A Level exams at the end of their A Level course. **Subject content:** 1 Biological molecules 2 Cells 3 Organisms exchange substances with their environment 4 Genetic information, variation and relationships between organisms 5 Energy transfers in and between organisms (A-level only) 6 Organisms respond to changes in their internal and external environments (A-level only) 7 Genetics, populations, evolution and ecosystems (A-level only) 8 The control of gene expression (A-level only)	Along with in-depth knowledge of the biological world, biologists also develop abilities and insight of scientific methods, data analysis, observation, correlations, and causal relationships. As with the other science subjects, the study of A Level Biology also helps students to build up abilities in research, problem solving, organisation and analytical skills.
Future Careers	**Assessment**
Careers related to Biology include medical professions, pharmacy, physiotherapy, biomedical engineering, research science (life sciences), microbiology, marine biology, conservation, and ecology, environmental management, food science, agricultural engineering and zoology.	AS Assessment: 2 written papers A Level Assessment: 3 written papers
Entry Requirements	**This course is suitable for…**
Biology: minimum 7 Maths: minimum 6	…students passionate about Biology or students planning to study medicine, pharmacy or veterinary.

Business Studies

<table>
<tr><td>Exam Board: AQA</td><td>Course Code: 9EC0/01</td></tr>
<tr><td>Course Summary</td><td>Skills</td></tr>
<tr><td>A Level Business studies qualification
Business objectives such as profit, growth, survival, cash flow, social and ethical objectives
Leadership and decision making
Reasons for choosing different forms of business and for changing business form
The role of shareholders and why they exist
Influences on share price and the significance of share price changes
The effects of ownership on mission, objectives, decisions and performance
Factors influencing costs and demand</td><td>Demonstrate knowledge of terms/concepts and theories/models to show an understanding of the behaviour of economic agents and how they are affected by and respond to economic issues
Enhanced verbal and writing skills
Numerical and problem-solving skills</td></tr>
<tr><td>Future Careers</td><td>Assessment</td></tr>
<tr><td>Accountant
Business adviser
Consultant
Corporate investment banker
Data scientist
Stock market analyst</td><td>A Level Economics is assessed as follows
Paper 1 – Written exam (33.3%) Three compulsory sections:
Section A has 15 multiple choice questions (MCQs) worth 15 marks.
Section B has short answer questions worth 35 marks.
Sections C and D have two essay questions (choice of one from two and one from two) worth 25 marks each.
Paper 2 – Written exam (33.3%) Three data response compulsory questions worth approximately 33 marks each and made up of three or four part questions
Paper 3 – Written exam (30%) One compulsory case study followed by approximately six questions</td></tr>
<tr><td>Entry Requirements</td><td>This course is suitable for…</td></tr>
<tr><td>GCSE
English – Grade 5
Mathematics – Grade 6</td><td>Ideal for students who:
want engage with the world of business through the context of current business developments and real business situations</td></tr>
</table>

Chemistry

Exam Board: AQA	**Course Code:** 601/5730/6; 601/5731/8
Course Summary	**Skills**
Sometimes referred to as the 'central science', chemistry helps to connect physical sciences, like Maths and Physics, with applied sciences, such as Biology, Medicine and Engineering. In fact, chemistry is all around us and an understanding of the subject can help to answer many simple questions about everyday life, and will be pivotal in the future to solve many of the current problems facing our society, such as; diseases, healthcare access, drug development, renewable energy, fuels and sustainable materials. Topics in this A Level fall into three main categories: Physical Chemistry, Inorganic Chemistry and Organic Chemistry. ● Physical Chemistry focuses on how the structure of atoms determines the properties, reactions and structures of chemical elements, compounds and substances. ● Inorganic Chemistry focuses on the chemical reactions, properties and structures of substances that do not involve carbon as the main element. ● Organic Chemistry involves the study of carbon based structures. Carbon is a highly versatile element; it is the basis of life, fuels and many other materials from plastics to pharmaceuticals. In organic chemistry you will study the properties, synthesis and reactions of a wide variety of carbon-based substances. There are 12 compulsory required practicals which are assessed in the written papers but pupils will carry out many experiments during the course.	● Analytical thinking, logical thinking and reasoning ● Problem solving ● Innovation and creativity ● Mathematical skills ● Modelling skills ● Practical and laboratory skills ● Group / Pair work

Future Careers	**Assessment**
There are a wide range of chemistry-related degrees available, including Analytical Chemistry, Biochemistry, Environmental Chemistry, Inorganic Chemistry, Organic Chemistry, Pharmaceutical Chemistry, Forensic science, Chemical Engineering, Physical Chemistry and Polymer and Materials Chemistry. These degrees in turn can lead to a range of careers as varied as medicine, veterinary medicine, dentistry, dietetics and nutrition, forensic chemistry, geochemistry, product or pharmaceuticals research & development, pharmacist, chemical engineering, petroleum engineering and cosmetics synthesis. For many universities chemistry is an *essential* prerequisite for Medicine. Chemistry, however, is also a highly versatile A-level and many employers value the generic problem solving, mathematical and reasoning skills of chemistry students. Such careers include: educators, project managers, consultants, lawyers, entrepreneurs, sales/service people, policy makers, analysts, bankers, writers and editors.	**AS Level** **Paper 1: Written exam, 1 hour 30 mins, 80 marks, 50% of AS Level** ● Physical Chemistry ● Inorganic Chemistry ● Relevant practical skills **Paper 2: Written exam, 1 hour 30 mins, 80 marks, 50% of As-level** ● Physical Chemistry ● Organic Chemistry ● Relevant practical skills **A Level** ***Paper 1: Written exam, 2 hours, 105 marks, 35% of A-level*** ● Physical Chemistry ● Inorganic Chemistry ● Relevant practical skills ***Paper 2: Written exam, 2 hours, 105 marks, 35% of A Level*** ● Physical Chemistry ● Organic Chemistry – ● Relevant practical skills ***Paper 3: Written exam, 90 marks, 30% of A Level*** ● Any content and any relevant practical skills
Entry Requirements	**This course is suitable for…**
7 in Chemistry (Combined Science also applies), 6 in Maths and 5 in English.	A person who wants a deeper understanding of the world around us (how and why things work)

Computer Science

Exam Board: OCR	**Course Code:** H446
Course Summary	**Skills**
A Level Computer Science qualification splits learning into three sections: ● Computer Fundamentals ● Programming Techniques and Logical Methods ● Programming Project Within the course, students study a range of theory topics. These include the principles and understanding linked to programming, hardware and software, networks, systems development life cycles and implications of computer use.	● Think creatively, innovatively, analytically, logically and critically ● Apply skills in and an understanding of computing including programming in a range of contexts to solve problems ● Delve into producing graphical user interfaces and object-oriented programming solutions
Future Careers	**Assessment**
● Computer games tester ● E-Learning development ● Forensic computer analyst ● Information systems manager ● IT project manager ● Network manager ● Software developer ● System Analyst	● Paper 1 - Computer Fundamentals - Written exam (40%) ● Paper 2 - Programming Techniques and Logical Methods - Written exam (40%) ● Programming Project - (20%)
Entry Requirements	**This course is suitable for…**
GCSE Computer Science - Grade 6	● Those looking to develop an advanced understanding of computer science ● Those wanting to apply their coding ability to solve real-world problems ● Those looking at a computing orientated degree ● Those aiming to work in the computing industry

Drama and Theatre

Exam Board: Pearson/ Edexcel	**Course Code:**9DR0
Course Summary	**Skills**
A Level Drama and Theatre assesses your engagement with play texts and your practical skills as an actor, designer or director. You are expected to become committed to the experience of live theatre. This will hopefully lead to a life-long interest in theatre-going as well as making the two year course a memorable one. The theoretical and practical elements of A level Drama and Theatre make it both a challenging and a very rewarding subject. It is by no means a soft option.	Oral Communication Skills Creative Problem Solving Abilities Motivation and Commitment Willingness to Work Cooperatively The Ability to Work Independently Time-budgeting Skills Initiative
Future Careers	**Assessment**
If you are aiming at drama school A level Drama and Theatre is incredibly useful, and it is good preparation for Drama at university, and for Creative Writing courses. Learners considering joint courses in English and Drama should certainly consider studying both these subjects at A level.	A Level Drama and Theatre is assessed as follows: ● Component 1 Devising (coursework and practical- internally assessed) ● Component 2 Text in Performance (practical performance- externally assessed) ● Component 3 Theatre Makers in Practice (written exam- externally assessed)
Entry Requirements	**This course is suitable for…**
GCSE Drama - Grade 6 GCSE English Literature Grade 6 GCSE English Language Grade 6	Ideal for students who: ● Are looking to develop an advanced understanding of Drama and Theatre ● Want to deepen their analytical understanding of text in performance

Economics

Exam Board: Edexcel	**Course Code:** 9EC0/01
Course Summary	**Skills**
A Level Economics qualification splits learning into three sections: • Theme 1: Markets and business behaviour • Theme 2: The national and global economy • Theme 3: Microeconomics and Macroeconomics Theme 1 introduces students to the microeconomic nature of economics, looking at economic problems and the ways economists think and work. Theme 2 introduces the key measures of economic performance and the main instruments of economic policy primarily in a UK context. Theme 3 is the introduction to markets and market failure and focuses on business economics. Theme 4 looks at the UK economy – performance and policies, and applies them in a global context.	• Demonstrate knowledge of terms/concepts and theories/models to show an understanding of the behaviour of economic agents and how they are affected by and respond to economic issues • Enhanced verbal and writing skills • Numerical and problem-solving skills
Future Careers	**Assessment**
• Economist • Financial risk analyst • Data analyst • Financial planner • Accountant • Economic researcher • Financial consultant • Investment analyst	A Level Economics is assessed as follows • Paper 1 – assess microeconomics and questions will be drawn from Themes 1 and 3 - Written exam (35%) • Paper 2 – assess macroeconomics and questions will be drawn from Themes 2 and 4. - Written exam (35%) • Paper 3 – assess content across all four themes – Written exam (30%)
Entry Requirements	**This course is suitable for…**
GCSE English – Grade 5 Mathematics – Grade 6	Ideal for students who: • want to prepare for careers that require numerical, analytical and problem-solving skills

English Literature

Exam Board: OCR	**Course Code:** H472
Course Summary	**Skills**
Is it ever right to take on the role of God? *Can marriage and independence coexist?* *To what extent was Shakespeare critical of colonialism?* The beauty of English Literature lies in how writers craft their texts to create stories and worlds that can be seen as a mirror of our own society. When studying Literature, you will read and appreciate some of the greatest and most influential writings ever published, which force us to face some challenging questions about our own beliefs and attitudes. Literature is explored in many different forms, including novels, drama, poetry, and short stories; these texts are selected across an expansive time period to encapsulate some of the most pertinent issues in various eras across history. Criticality is key to fully appreciate the complex ideas conveyed in literature. You will be able to familiarise yourself with different schools of thought and learn to interpret texts through varied perspectives, including dramatic and theatrical adaptations. The genre study of The Gothic will also develop an in-depth understanding of the developments in this area, comparing different approaches and identifying connections across texts. 1: Drama and Poetry Pre 1900 ***The Tempest*** William Shakespeare ***A Doll's House*** Henrik Ibsen ***Selected Poems*** Christina Rossetti 2: Comparative and Contextual study ***The Bloody Chamber*** Angela Carter ***Frankenstein*** Mary Shelley **Unseen Gothic Extracts** 3: Literature Post 1900 (Coursework) Three texts: One poetry, one prose, one drama Two tasks: Close reading analytical essay and a Comparative essay Note: Text choices are subject to change	English Literature is still one of the most highly regarded subjects by universities. It is 'facilitating', meaning that it will open the door and equip you with skills to study a wide range of different subjects including: Communication – Producing essays that develop arguments logically and coherently. Responses will be personal, creative, and informed, evaluating strengths and flaws in varied viewpoints, particularly through discussion based tasks. Analytical – Unpacking the varied methods by writers to craft and convey meaning. Building connections across texts and analysing how meaning is shaped. Critical – Understanding the various contextual influences and interpreting texts through different perspectives and theories.

Future Careers	**Assessment**
Writing Publishing Performance Journalism and broadcasting Education Teaching Law Politics Civil Service	2 x 2.5 hour exams – 40% each Paper 1: Drama and Poetry pre-1900 Paper 2: Comparative and Contextual Study Non-exam assessment: Literature Post-1900 20% Task 1: 1000 words Task 2: 2000 words
Entry Requirements	**This course is suitable for…**
6 in English (Language and Literature)	First and foremost, you must have a passion for reading and be able to do this independently. You should be willing to engage in arguments and debates, a clear communicator, and willing to explore different interpretations.

Film Studies

Exam Board: OCR	**Course Code:** QN603/1120/4
Course Summary	**Skills**
Film Studies has been designed to ignite a passion for film and encourage broader cultural and historical perspectives on this academic area of study. This course of study encourages learners to watch, engage critically with and explore a wide range of film; to develop and sustain confident, personal responses to film via textual analysis; and to enjoy a variety of critically acclaimed films across the major genres. These include films from different cultural perspectives and from the 1930s to present day. Not only this, but learners are offered the opportunity to engage in practical work such as the production of their own key sequence from a film or screenplay. Film Studies will open your mind to vast array of cinema and film which will intrigue you and excite you. There will be films from different national cinemas, from the Silent Era, to classics like *Citizen Kane*, lastly focussing on masterpieces such as Scorsese's *Raging Bull*. This subject also incorporates different film forms (shorts, experimental, documentary and fiction) and produced by a diverse variety of authors. The course has something for everyone to broaden their academic skills whilst being thoroughly engaged and challenged.	Film Studies students are able to develop: A practical understanding and approach to film making. Skills to carry out an evaluative analysis of your own productions in relation to other professionally produced work. An understanding of the contexts in which films are made, including the social, cultural, political, historical, institutional, technological contexts. The skills to interrogate how concepts such as narrative, genre, representation, spectatorship and aesthetics are used to create meaning by deconstructing and creating film.

Future Careers	**Assessment**
Film Maker Film/Video Editor Production Designer, Theatre, Television, Film Advertising Art Director Journalist Marketing Executive	3 x 2-hour exams Non-examined coursework Making a short film
Entry Requirements	**This course is suitable for students who…**
GCSE English Literature Grade 6 GCSE English Language Grade 6	● Have a love for watching film and television ● Want to expand their film knowledge and enjoy delving into the deeper meaning of film ● Want to develop their analytical and creative skills.

Further Maths

Exam Board: Edexcel	**Course Code:** 9FM0
Course Summary	**Skills**
A Level Further Mathematics is designed to broaden and deepen the mathematical knowledge and skills developed when studying A-level Mathematics. It will be studied alongside A-level Mathematics and provides a stimulating experience for those who enjoy the subject. A Level Further Maths provides a much deeper understanding of mathematical concepts. Students will use their mathematical skills and techniques to solve challenging problems which require them to decide on the solution, strategy, recognise when mathematics can be used to analyse and solve a problem in context, represent situations mathematically and understand the relationship between problems in context and mathematical models that may be applied to solve them. A Level Further Maths content is heavily focused on additional Pure Mathematics but also contains a proportion of optional content from Mechanics, Statistics and Decision Mathematics.	Any student capable of passing an AS/A Level in Mathematics should also be able to pass AS Further Mathematics. Studying Further Mathematics consolidates and reinforces your standard A level Mathematics work, helping you to achieve your best possible grades. As well as learning new areas of pure mathematics you will study further applications of mathematics in mechanics, statistics and/or decision mathematics. It is a challenging qualification, which both extends and deepens your knowledge and understanding beyond the standard A level Mathematics. Students who do it often say it is their favourite subject.
Future Careers	**Assessment**
Degree choices where A Level Further Mathematics is listed as useful • Actuarial Science • Aeronautical Engineering • Biochemistry • Biomedical Sciences (including Medical Science) • Chemical Engineering • Chemistry • Civil Engineering • Computer Science • Dentistry • Electrical/Electronic Engineering • Engineering (General) • Law • Materials Science (including Biomedical Materials Science) • Mathematics • Mechanical Engineering • Medicine • Optometry (Opthalmic Optics) • Physics • Veterinary Science	**Compulsory Exams** Paper 1: Core Pure Mathematics 1 Paper 2: Core Pure Mathematics 2 Each paper is: 1 hour and 30 minutes worth 25% of the qualification 75 marks **Optional Exams (Choose 2)** Further Pure Mathematics 1 Further Statistics 1 Further Mechanics 1 Decision Mathematics 1 Each paper is: 1 hour and 30 minutes, worth 25% of the qualification 75 marks

Entry Requirements	**This course is suitable for…**
Grade 8 in GCSE Maths or a grade 7 with teacher recommendation	…students who choose Further Maths should have a passion for maths and will be planning to study maths at university and pursue a future career that uses maths in a significant way. They should be expecting to work hard to build on their knowledge from GCSE as well as master A Level Maths content.

Geography

Exam Board: AQA	**Course Code:** 7037
Course Summary	**Skills**
There has never been a better or more important time to study geography. Geography helps you to make sense of the world around you. It's hands on, relevant, and fun. Whatever your passion for the world – fascination with landscapes or concerns about sustainability – geography will provide you with knowledge and transferable skills that will reward you personally and advance you professionally. A Level geography offers a selection of new, interesting topics not covered at GCSE level, and allows you to go into greater depth in some key elements previously studied. It covers both the physical and human environments and the complex interaction of processes that shape our world. It will also, importantly, show the applied side of the subject - how human intervention affects the environment and how people adapt and mitigate the effects of processes on their environment.	Geography is one of the Russell Group universities' 'facilitating' subjects. This means that it is highly regarded by Russell Group universities (universities recognised as being some of the best in the UK and the world) due to its rigour, academia and flexibility in showcasing a wide variety of transferable knowledge and skills. Amongst many others skills, in studying Geography, you will gain: ● *Research skills*: selecting research questions, applying techniques and skills, and finding ways to analyse and communicate your findings ● *Communication skills*: to produce arguments and to communicate ideas verbally and in writing as well as visual communication skills through using maps, graphs diagrams and images. ● *Data and geospatial skills*: qualitative and quantitative geographical skills, working with images, factual text and discursive/creative material, digital data, numerical and spatial data and innovative forms of data, including crowd-sourced and 'big data'. ● *Fieldwork experience and Teamwork* Geography is an exceptionally flexible qualification and can lead you to any number of different pathways, both in terms of science, and humanities. The combination of science and humanities will give you the necessary practical and academic experience to excel in any university course or career.

Future Careers	**Assessment**
Medicine/ Medical research Law (especially human rights)/ Criminology / Psychology Teaching / Educational Studies/ Lecturers International relations Environmental science/ Geography/ Geology/ Marine Biology Archaeology/ History/ Palaeontology/ Climate science/ Meteorology/ Volcanology Architecture/ Engineering/ Mathematics/ Urban Planning/ Surveyor Agriculture/ Physical sciences/ Earth sciences Journalism/ Languages Business/ Strategists/ Consultancy/ Analysts	**Paper one: Physical Geography** Topics included: ● Water and carbon cycles ● Glacial systems and landscapes ● Ecosystems under stress Written exam: 2 hours 30 minutes 40% of A-level **Paper two: Human Geography** Topics included: ● Global systems and global governance ● Changing places ● Contemporary urban environments Written exam: 2 hours 30 minutes 40% of A-level **Geography fieldwork investigation** You will complete an individual investigation which includes data collected in the field. The individual investigation is based on a question or issue relating to any part of the specification content that you choose. 3,000–4,000 words 20% of A-level marked by teachers
Entry Requirements	**This course is suitable for…**
Ideally a grade 7, or a grade 6 with a strong recommendation from your GCSE class teacher. A grade 5 or above in GCSE maths and English. A grade 5 or above in science would be ideal.	Hard working pupils who are organised and independent, including students committed to wider reading and learning. Students that are confident and independent thinkers that can complete extensive fieldwork.

History

Exam Board: AQA	**Course Code:** 7042

Course Summary

History is like an academic time machine. Everything happening around us today has been influenced by and is a result of what has happened in the past. Through studying History, we can examine key events in our collective past, learn how they shape the present and predict what could happen in the future. Studying History at A Level gives you the opportunity to examine and understand major historical events that have impacted our nation and the wider world over the last 500 years. Through the interrogation of sources and interpretations, you will have the unique opportunity to offer your own perspective on our collective history and justify how and why you have reached this viewpoint. At A Level, you will learn to grapple with current historical scholarship and truly 'do what Historians do' by engaging in current debate and historiography on the topics you are taught.

There are three overarching units of study.

Breadth Study: Tudor England 1485 – 1603

Key questions include:

- Did a king really murder his nephews?
- Did Henry VII invent fake news?
- Why did so many people try to overthrow the Tudors?
- Was Elizabeth I really a virgin Queen?

Depth Study: The Cold War 1945 – 1991

Key questions include:

- How close did we really come to nuclear oblivion?
- Who won the space race?
- How did one big wall cause decades of heartache?
- Why did an 18 year old pilot cause chaos in 1987?

Coursework: South Africa in the 20th Century

Key questions include:

- Why is South Africa known as 'the Rainbow Nation'?
- What was the impact of Apartheid (racial separation) in South Africa from 1948 onwards?
- Why did Nelson Mandela spend 27 years in prison?

Skills

History is one of the Russell Group universities' 'facilitating' subjects. This means that it is highly regarded by Russell Group universities (universities recognised as being some of the best in the UK and the world) due to its rigour, academia and flexibility in showcasing a wide variety of transferable knowledge and skills. Amongst many others skills, in studying History, you will gain:

- *Strong Analytical Skills:* through interrogating sources, interpretations and scholarship.
- *Enhanced Verbal and Written Communication:* through debate, structured argument and essay writing.
- *Critical thinking:* through weighing the merit of historical evidence to ascertain its reliability, purpose and thus overall value.

History is an exceptionally flexible qualification and thus provides an excellent pathway to a wide variety of degrees and careers. When considering your pathway, keep in mind that essays are a method of assessment in most university courses, thus taking an essay-based subject at A Level is definitely recommended, regardless of your eventual career choice.

Future Careers	**Assessment**
● Medicine ● Law / Criminology / Psychology ● Armed Forces ● Teaching / Educational Studies ● Journalism ● Politics / Classics / Philosophy ● Archaeology	*Component 1:* breadth study: written exam, 2 hours 30 minutes, 40% of A Level *Component 2:* depth study: written exam, 2 hours 30 minutes, 40% of A Level *Component 3:* coursework: 3500 – 4500 words, 20% of A Level
Entry Requirements	**This course is suitable for…**
Ideally, a grade 7 but, with a recommendation from your teacher, a grade 6. Additionally, you must have at least a grade 5 in GCSE English.	Hard working pupils who are organised and take independent learning and reading seriously. You need to have a genuine interest in History and a passion for argument, debate and interpretation. You also need to be a competent writer.

Maths

Exam Board: Edexcel	**Course Code:** 9MA0
Course Summary	**Skills**
A Level Maths is a rigorous course that builds on GCSE content as well as introduces new topics. There are three overarching themes throughout the content: ● Mathematical argument, language and proof ● Mathematical problem solving ● Mathematical modelling <u>Content overview</u> **Pure Mathematics** Topic 1 – Proof Topic 2 – Algebra and functions Topic 3 – Coordinate geometry in the (x, y) plane Topic 4 – Sequences and series Topic 5 – Trigonometry Topic 6 – Exponentials and logarithms Topic 7 – Differentiation Topic 8 – Integration Topic 9 – Numerical methods Topic 10 – Vectors **Statistics** Topic 1 – Statistical sampling Topic 2 – Data presentation and interpretation Topic 3 – Probability Topic 4 – Statistical distributions Topic 5 – Statistical hypothesis testing Section **Mechanics** Topic 6 – Quantities and units in mechanics Topic 7 – Kinematics Topic 8 – Forces and Newton's laws Topic 9 – Moments	Students will build on their strong algebra and numeracy skills. Students will also be challenged to draw on methods from various different areas of maths when problem solving. Topics built on from GCSE: ● Averages ● Changing the Subject ● Coordinate Geometry ● Functions ● Graph Transformations ● Sine/Cosine Rules ● Trigonometry Topics Built on from GCSE Further Maths: ● Binomial Expansion ● Differentiation ● Equations of Circles ● Quadratic Equations ● Surds and Index Laws

Future Careers	**Assessment**
A Level Maths is Essential for these degrees: ● Actuarial Science ● Aeronautical Engineering ● Chemical Engineering ● Civil Engineering ● Economics ● Electrical/Electronic Engineering ● Engineering (General) ● Mathematics ● Mechanical Engineering ● Physics ● Statistics	The assessment has a gradient of difficulty throughout the paper and consists of a mix of short and long questions. **Paper 1: Pure Mathematics** **Paper 2: Pure Mathematics** **Paper 3: Statistics & Mechanics** $33\frac{1}{3}\%$ of the grade each 2 hours 100 marks
Entry Requirements	**This course is suitable for…**
Grade 7 in GCSE Maths or a grade 6 with teacher recommendation	Students who choose A Level maths should have a passion for maths and may be planning to study maths at university and/or pursue a future career that uses maths in a significant way. They should be expecting to work hard to build on their knowledge from GCSE.

Music Production

Exam Board: Pearson	**Course Code:** 603/0211/2
Course Summary	**Skills**
This course is for aspiring Digital Composers, Producers, Live Sound and Recording Engineers, and anyone interested in making and recording music. It offers students an insight into the Music Industry, Advanced Composition, Studio Production and Live Sound.	To ensure you have the skills to succeed you will develop professional skills in key areas such as Composition, Studio Techniques, Audio Engineering, Music Production and Live Sound.
Future Careers	**Assessment**
Level 3 courses are equivalent to three A Levels and give access to a wide range of Higher Education and career options including: musician/performer, music producer, DJ, songwriter, music therapist, private music teacher, classroom teacher/lecturer, composer, sound designer, sound technician, special effects technician, artist manager, event manager, marketing manager, lighting engineer, radio producer, theatre manager, stage manager, administrator, promoter, journalist, music business lawyer, instrument builder/repairer/sales, tour manager, community worker, social media marketing etc.	Learners taking this qualification will study four mandatory learning and teaching modules: • Music Skills Development, or Music Production Skills Development • The Music Industry • Personal Music Profile • Collaborative Music Project
Entry Requirements	**This course is suitable for…**
Five GCSEs at grade 4 including English and maths. You should demonstrate an interest in the field of Music Technology, which could be DJing, music production, live sound or music for film and TV.	Ideal for students who: • Are looking to develop an advanced understanding of Music Production • Students who want to pursue a career in Music or want to develop a side hobby/hustle.

Physical Education

Exam Board: OCR	**Course Code:** H555
Course Summary	**Skills**
Have you ever wondered why some people can run faster than others or how personality can affect your performance? Have you ever questioned why an elite athlete would risk everything and use performance enhancing drugs? Do you want to find out more about how technology can improve an athlete's performance? Study A-Level PE to find the answers. The emphasis throughout the course is on the development of your knowledge, competence and confidence in a wide variety of skills that will enable you to confidently move forward in life. You will learn how Physical Education affects and contributes to society and also how to apply your knowledge from this course to any number of different practical situations or career choices.	Along with in-depth knowledge of human biology, you also need to gain an understanding of sports psychology, biomechanics, and how the theory behind sport physical education and physical activity works. There is an element of the course that requires practical ability so this is a skill you require in at least two different sports. As well as the above you will need ● Motivation and Commitment ● Willingness to Work Cooperatively ● The Ability to Work Independently ● Good essay writing skills
Future Careers	
You could study at a top university leading towards a career in the following: Physiotherapy, Nutritionist, Sports Massage, Sports Medicine, Biomechanist, PE Teacher, Sports Development, Fitness Industry, Sport Infrastructure, Sports Law, Finance in Sport, Journalism, Coaching, Photography, Events Management, Sports Psychology and many more.	

Assessment

Content Overview	Assessment Overview	
• Applied anatomy and physiology • Exercise physiology • Biomechanics	Physiological factors affecting performance (01)* 90 marks 2 hour written paper	30% of total A level
• Skill acquisition • Sports psychology	Psychological factors affecting performance (02)* 60 marks 1 hour written paper	20% Of total A level
• Sport and society • Contemporary issues in physical activity and sport	Socio-cultural issues in physical activity and sport (03)* 60 marks 1 hour written paper	20% of total A level
• Performance or Coaching • Evaluation and Analysis of Performance for Improvement (EAPI)	Performance in physical education (04)* 60 marks** Non-exam assessment (NEA)	30% of total A level

Entry Requirements	This course is suitable for…
8 GCSEs at grades 5 or above with grade 6 in P.E English and Science (sport Tech - Level 2 merit).	Hard working pupils who are organised and take independent learning and reading seriously. You need to have a genuine interest in Physical Education and a passion for how the body works and the theory behind sport. You also need to be a competent writer. It helps to have a strong practical background however the above is more important.

Physics

<table>
<tr><td>Exam Board: AQA</td><td>Course Code: 7408A</td></tr>
<tr><td>Course Summary</td><td>Skills</td></tr>
<tr><td>First year pupils will start to unravel the universe starting with how to effectively investigate the laws of nature before plunging into the mysteries of the subatomic realms and the bizarre nature of light. Pupils continue their GCSE learning to a greater depth with forces and motion and broaden to new topics such as stationary waves as well as the elastic properties of materials.

Pupils also learn how electric circuits really work and have those amazing Physics questions students have always wanted to ask, answered.

In the second year, pupils will continue their progression into understanding the very fabric of how our universe is constructed.
They will learn the first levels of some of the most fundamental concepts in Physics such as simple harmonic motion and thermal energy transfers. Pupils will also learn how gravitational, electrical and magnetic fields are constructed along with their properties.

The fun continues into deepening their understanding of radiation and radioactive decay. The course will end with students learning about how to look into space and make appropriate measurements. This is followed with a (metaphorical) trip into the stars to see how change in their life cycles.</td><td>• Develop essential knowledge and understanding of different areas of the subject and how they relate to each other
• Develop and demonstrate a deep appreciation of the skills, knowledge and understanding of scientific methods
• Develop competence and confidence in a variety of practical, mathematical and problem solving skills
• Use theories, models and ideas to develop scientific explanations
• Use knowledge and understanding to pose scientific questions, define scientific problems, present scientific arguments and scientific ideas
• Conduct experimental and investigative activities, including appropriate risk management, in a range of contexts
• Analyse and interpret data to provide evidence, recognising correlations and causal relationships
• Evaluate methodology, evidence and data, and resolve conflicting evidence
• Communicate information and ideas in appropriate ways using appropriate terminology
• Evaluate the role of the scientific community in validating new knowledge and ensuring integrity
• Evaluate the ways in which society uses science to inform decision making</td></tr>
<tr><td>Future Careers</td><td>Assessment</td></tr>
<tr><td>Below is a list of areas that A Level Physics will enable. This is not an extensive list:

- Astronomy and space
- Climate Science and meteorology
- Design and invention</td><td><u>A Level</u>

Paper 1: Written exam, 2 hours, 85 marks, 34% of Level

● Measurements and their errors</td></tr>
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- Education
- Engineering and architecture
- Lasers and photonics
- Medical physics and digital healthcare
- Nanotechnology
- Physics
- Renewable energy
- Robotics and AI
- VFX and gaming
- Finance and law

Please ask for more details

</td>
<td>

- Particles and radiation
- Waves
- Mechanics and materials
- Electricity
- Periodic Motion

Paper 2: Written exam, 2 hours, 85 marks, 34% of A Level

- Thermal physics
- Fields and their consequences
- Nuclear physics

Paper 3: Written exam, 80 marks, 32% of A Level

- Astrophysics
- Practical skills

Physics Practical Endorsement

- Assessment for practical skills
    - Pass or fail - no grade given
- Assessed throughout course

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<tr>
<td>Entry Requirements</td>
<td>This course is suitable for…</td>
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<td>

- 7 in Physics or 7 in Combined Science
- 6 Maths

FAQ:
Do I need to take A-level Maths to do well in A Level Physics?

No, it is not a requirement or necessary. Many students are successful at A Level Physics without undertaking A Level Maths.

</td>
<td>

…those willing to take risks
…those with an interest in any of the possible career paths mentioned in Future Careers
…those who enjoy finding out how things work

</td>
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Product Design

Exam Board: AQA	**Course Code:** 603/1133/2
Course Summary	**Skills**
"This creative and thought-provoking qualification gives students the practical skills, theoretical knowledge and confidence to succeed in a number of careers. Especially those in the creative industries. They will **investigate** historical, social, cultural, environmental and economic influences on design and technology, whilst enjoying opportunities to put their learning in to practice by producing **prototypes** of their choice. Students will gain a real understanding of what it means to be a designer, alongside the knowledge and skills sought by higher education and employers."[1] 1https://www.aqa.org.uk/subjects/design-and-technology/a-level/design-and-technology-product-design-7552/subject-content/technical-principles	Problem solving Designing Drawing Computer graphics software Analysing and evaluating Making Safety Tools use: Machine and hand Modelling

Future Careers	**Assessment**
Engineering Set design Product Design Civil Engineering Fashion Design Spatial and interior design Fashion Design Graphics designer Automotive engineering Experience Designer	**2 x exam papers plus Non Exam Assessment (NEA)** **Paper 1:** Technical Principles Percentage of A Level: 30% Time: 2 hours 30 minutes **Paper 2:** Designing and making principles Section A: Product Analysis Section B: Commercial manufacture Percentage of A Level: 20% Time: 1 hours 30 minutes **NEA:** Practical application of technical principles, making and design principles. **Assessment:** Substantial design and make project with written and photographic evidence. Percentage of A Level: 50%
Entry Requirements	**This course is suitable for…**
GCSE Maths 5 GCSE DT 5	Self-motivated and disciplined individuals with a desire for problem solving. Must be happy to get their hands dirty and work hard.

Psychology

Exam Board: AQA	**Course Code:** 7182
Course Summary	**Skills**
A Level Psychology qualification splits learning into three sections: • Introduction to Psychology • Psychology in Context • Issues and Options in Psychology Within the course, students study a range of theory topics. These includes Social Influence, Memory, Approaches in Psychology, Biopsychology, Attachments, Psychopathology. As well as Issues and Debates in Psychology, Gender, Schizophrenia, Aggression and Research Methods.	• Demonstrate knowledge and understanding of psychological concepts, theories, research studies and • Analyse, interpret and evaluate psychological concepts, theories, research studies and research methods. • Enhanced verbal and writing skills • Numerical and problem-solving skills.
Future Careers	**Assessment**
• Clinical Psychologist • Educational Psychologist • Teacher • Nurse • Physiotherapist • Counsellor • Solicitor • Social Worker	A Level Computer Science is assessed as follows • Paper 1 – Introduction to Psychology - Written exam (33.3%) • Paper 2 – Psychology in Context - Written exam (33.3%) • Paper 3 – Issues and Options in Psychology – Written exam (33.3%)
Entry Requirements	**This course is suitable for…**
GCSE Psychology – Grade 5 English – Grade 5 Mathematics – Grade 6	Ideal for students who: • Are looking to develop an advanced understanding of Psychology. • Are looking at a Psychology orientated degree. • Are aiming to work in the public sector.

Religious Studies

Exam Board: OCR	**Course Code:** H573
Course Summary	**Skills**
Religious Studies covers studies of both philosophy and ethics as well as developments in a key world religion. Those who take this journey of study will encounter some of the most profound wisdom available to us all. The course takes in some of the greatest thinkers of human history, starting with the ancient Greeks, e.g. Aristotle, Plato up and including great 20th century thinkers such as Ludwig Wittgenstein, Simone De Beauvoir Jean-Paul Sartre. The course will prepare students to be inquisitive and independent learners. They will be students who can engage with some of greatest minds history has produced but also critically analyse their ideas and begin the journey of developing important insights of their own.	• Critical thinking • Essay Writing • Critical analysis • Communication Skills • Interpretation of texts • Presentation skills • Persuasive writing
Future Careers	**Assessment**
• Writer • Philosopher • Academic • Doctor • Politician • Journalist • Teacher • Counsellor • Psychologist • Teacher • Comedian • Scriptwriter • Podcaster • Business Leader • Translator	**Philosophy of Religio**n - 33.3% of overall A Level **Religion and Ethics** - 33.3 % of overall A Level **Developments in Religious Thought** - 33.3% of overall A Level
Entry Requirements	**Suitable for students who…**
Average Points Score: 5 GCSE English Literature Grade 5 GCSE English Language Grade 5	• …are looking to develop an understanding of great philosophical thought • …want to pursue a career in a role that needs acute critical thinking skills • …want to develop their understanding of the world around them

Sociology

Exam Board: AQA	**Course Code:** 7193
Course Summary	**Skills**
In an ever-changing society, sociology is used as a tool to help you reveal the meaning behind why things have happened; why do some children underachieve in school? Is it because the education system teaches their culture in a negative light? Can divorce be more helpful than harmful for society? Is poverty inevitable or self-inflicted? Is the true cause of crime due to a lack of a parental figure or socialisation? Has the media now taken over the role of a 'parent'? Is the media the main cause of the majority of problems in society? If you're intrigued by these questions then A Level sociology is perfect for you. You will be studying 4 main topics; ● Family and households ● Crime and deviance ● The media ● The education system	Studying sociology will equip you with a range of vital transferable skills, including: ● Problem solving ● Critical thinking ● Presenting ● Analysis ● Research All of which are skills that are important in everyday life. These skills are skills that will be beneficial in a number of careers.
Future Careers	**Assessment**
● Teaching ● Crime analyst ● Police officer ● Probation officer ● Social worker ● Law ● Market research analysis ● Management consultant	3 x two hour exams, each worth 33.3% of your final A level grade ● Paper 1: education with theory and methods ● Paper 2: family and households and The media ● Paper 3: crime and deviance with theory and method in context
Entry Requirements	**This course is suitable for…**
GCSE Sociology - grade 6 GCSE English - grade 5	● Those looking to develop an advanced understanding of sociology ● Those gather a true understanding of how society works and changes

Spanish

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<tr><td>Exam Board: OCR</td><td>Course Code: 7692</td></tr>
<tr><td>Course Summary</td><td>Skills</td></tr>
<tr><td>A Level Spanish qualification splits learning into three sections:

• Develop research skills in Spanish relating to the country or countries where Spanish is spoken
• Understand how Spanish-speaking society has been shaped socially and culturally and how it continues to change.
• Develop knowledge and understanding of themes relating to the culture and society of countries where Spanish is spoken, and language skills.</td><td>• Think creatively, analytically, and critically
• Language learning skills: speaking, listening, reading and writing
• Using communication strategies such as adjusting the message, circumlocution, self-correction and repair strategies.
• Apply knowledge of pronunciation, morphology and syntax, vocabulary and idiom to communicate accurately and coherently, using a range of expression
• Infer meaning from complex spoken and written material
• Summarise information from spoken and written sources</td></tr>
<tr><td>Future Careers</td><td>Assessment</td></tr>
<tr><td>Languages related:
Teaching
Translation and interpreting
Hospitality and tourism
Journalism
University researcher

Non-languages related:
Publishing and media, psychology, content creator, HR, Law, engineering, acting, sales executive, etc.</td><td>• Paper 1 – Listening, Reading and Writing (50%)
• Paper 2 - Writing (20%)
• Paper 3 - Speaking (30%)

Themes:
• Social issues and trends
• Political and artistic culture
• Grammar
• Literary texts and film</td></tr>
<tr><td>Entry Requirements</td><td>This course is suitable for…</td></tr>
<tr><td>GCSE Spanish - Grade 6</td><td>• Those passionate about languages and other cultures
• Those interested in changes in society and how other live
• Those interested in exploring how to express themselves in different ways
• Those looking at a Humanities orientated degree</td></tr>
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T Level Health

Exam Board: Pearson	**Course Code:** 603/5832/4
Course Summary	**Skills**
Students will learn about the following topics: • Working within the health and science sector • The healthcare sector • Health, safety and environmental regulations in the health and • science sector • Health and safety regulations applicable in the healthcare sector • Managing information and data within the health and science • sector • Managing personal information • Good scientific and clinical practice • Providing person-centred care • Health and wellbeing • Infection prevention and control in health specific settings	• Demonstrate person-centred care skills • Communication • Team working • Reflective evaluation • Researching • Presenting
Future Careers	**Assessment**
Future careers include: • Midwife • Nurse • Social Worker • Physiotherapist • Sport scientist • Adult nursing • Mental Health worker	T Level Health is assessed as follows: • Core paper 1 (33%): Healthcare • Core paper 2 (33%): Science • Core Employer Set Project (33%)– Externally set project (14.5 hours) • Occupational specialist (100%) – Externally set project
Entry Requirements	**This course is suitable for…**
5 GCSE's 4 and above inc English and Maths	Ideal for students who: • …want to pursue a career in the healthcare sector

T Level Digital, production, design and development

Exam Board: Pearson	**Course Code:** 603/5832/4
Course Summary	**Skills**
Students will learn about the following topics: • Problem solving • Programming • Emerging issues and impact of digital technologies • Legislation and regulatory requirements • Business context • Data • Digital environments • Security	• Think creatively, innovatively, analytically, logically and critically • Apply skills in and an understanding of computing including programming in a range of contexts to solve problems • Delve into producing graphical user interfaces and object-oriented programming solutions
Future Careers	**Assessment**
Future careers include: • Web developer • Web designer • Computer games tester • Software development technician • Junior games developer • Junior software developer • E-learning developer • User experience (UX) designer	T Level Digital production, design and development is assessed as follows: • Core paper 1 (33%): Digital analysis, legislation and emerging issues – Written exam paper (2.5 hours) • Core paper 2 (33%): The business environment – Written exam paper (2.5 hours) • Core Employer Set Project (33%)– Externally set project (14.5 hours) • Occupational specialist (100%) – Externally set project (67 hours)
Entry Requirements	**This course is suitable for…**
5 GCSE's 4 and above GCSE Computer Science - Grade 6	Ideal for students who: • A clear idea as to the industry sector they wish to pursue as a career • An idea of the type of job role they'd like to explore as a career